

REMARKS

The Abstract has been objected to by the Office Action. The Applicant submits that the present amendment renders this objection moot.

Claims 1-26 are present in the application, and all of claims 1-26 have been rejected by the Office Action. Claims 1, 5-8, 12, and 16 are rejected as anticipated under 35 U.S.C. § 102(e) over *Zou*. Claims 2-4, 9-11, 13-15 and 17-20 are rejected as obvious under 35 U.S.C. § 103(a) over *Zou* in view of *Falkenburg*. Claims 21 and 24-26 are rejected as obvious under 35 U.S.C. § 103(a) over *Zou*. Claims 22 and 23 are rejected as obvious under 35 U.S.C. § 103(a) over *Zou* in view of *Stutz*. Claims 1, 5, 6, 8, 12, 16 and 21-26, and the Abstract have been amended to clarify what Applicant regards as the present invention.

The Applicant respectfully traverses these rejections, and argues that the rejections are rendered moot by the present amendment. With respect to claim 1, the Applicant submits that *Zou* is inapplicable to this claim. Claim 1 clearly claims a method for notifying a client of a specific change within a system. Such a specific change may be, for example, connection of a device, disconnection of a device, or errors in communication with a device. As is described in *Zou*, changes cause a bus reset, and notification of those changes is triggered by the bus reset. See, e.g. *Zou*, col. 12, lines 1-18. Moreover, the *Zou* reference indicates that change information is distributed based on devices, rather than specific changes as claimed. See, e.g. *Zou*, col. 13, lines 32-44. As such, the changes contemplated in *Zou* are different from the specific change claimed (*Zou* cannot provide notification of a change related to errors in

communication with a device for example), and *Zou* cannot anticipate the claimed invention.

With respect to claim 8, the Applicant submits that *Zou* is inapplicable to this claim. Claim 8 clearly claims a subsystem useful for notifying a client of a specific change within a system. Such a specific change may be, for example, connection of a device, disconnection of a device, or errors in communication with a device. As is described in *Zou*, changes cause a bus reset, and notification of those changes is triggered by the bus reset. See, e.g. *Zou*, col. 12, lines 1-18. Moreover, the *Zou* reference indicates that change information is distributed based on devices, rather than specific changes as claimed. See, e.g. *Zou*, col. 13, lines 32-44. As such, the changes contemplated in *Zou* are different from the specific change claimed (*Zou* cannot provide notification of a change related to errors in communication with a device for example), and *Zou* cannot anticipate the claimed invention.

With respect to claim 12, the Applicant submits that *Zou* is inapplicable to this claim. Claim 12 clearly claims a medium useful for notifying a client of a specific change within a system. Such a specific change may be, for example, connection of a device, disconnection of a device, or errors in communication with a device. As is described in *Zou*, changes cause a bus reset, and notification of those changes is triggered by the bus reset. See, e.g. *Zou*, col. 12, lines 1-18. Moreover, the *Zou* reference indicates that change information is distributed based on devices, rather than specific changes as claimed. See, e.g. *Zou*, col. 13, lines 32-44. As such, the changes contemplated in *Zou* are different from the specific change claimed (*Zou* cannot provide

notification of a change related to errors in communication with a device for example), and *Zou* cannot anticipate the claimed invention.

With respect to claim 16, the Applicant submits that *Zou* is inapplicable to this claim. Claim 16 clearly claims a system which may notify a client of a specific change within the system. Such a specific change may be, for example, connection of a device, disconnection of a device, or errors in communication with a device. As is described in *Zou*, changes cause a bus reset, and notification of those changes is triggered by the bus reset. See, e.g. *Zou*, col. 12, lines 1-18. Moreover, the *Zou* reference indicates that change information is distributed based on devices, rather than specific changes as claimed. See, e.g. *Zou*, col. 13, lines 32-44. As such, the changes contemplated in *Zou* are different from the specific change claimed (*Zou* cannot provide notification of a change related to errors in communication with a device for example), and *Zou* cannot anticipate the claimed invention.

With respect to claim 21, the Applicant submits that *Zou* is inapplicable to this claim. Claim 21 clearly claims a method for notifying a client of a specific change in a Universal Serial Bus (USB). Such a specific change may be, for example, connection of a device, disconnection of a device, or errors in communication with a device. As is described in *Zou*, changes cause a bus reset, and notification of those changes is triggered by the bus reset. See, e.g. *Zou*, col. 12, lines 1-18. Moreover, the *Zou* reference indicates that change information is distributed based on devices, rather than specific changes as claimed. See, e.g. *Zou*, col. 13, lines 32-44. Moreover, the *Zou* reference indicates that change information is distributed based on devices, rather than specific changes as claimed. See, e.g. *Zou*, col. 13, lines 32-44. As such, the changes

contemplated in *Zou* are different from the specific change claimed (*Zou* cannot provide notification of a change related to errors in communication with a device for example), and *Zou* cannot render obvious the claimed invention. Furthermore, *Zou* specifically contemplates use of an IEEE 1394 bus, and automatic resets implemented in the IEEE 1394 bus, none of which anticipate or render obvious use of the claimed method with USB. Applicant submits that if USB is well known in the art, a reference may be supplied, and thus request either a declaration regarding this part of the rejection, or an actual reference, should this rejection be renewed on these grounds.

With respect to the rejection of claims 2-7, 9-11, 13-15, 17-20, and 22-26, the Applicant notes that each of these claims depends on a base claim which has been shown to be allowable above. Applicant therefore does not address the propriety of the rejections of these claims, either in amended or unamended form.

Condition for Allowance

Applicant submits that all rejections have been overcome and the present application is now in condition for allowance. If the Examiner has any questions or comments, the Applicant respectfully requests that the Examiner contact the undersigned by telephone.

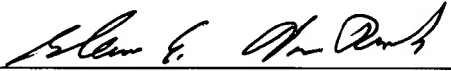
Charge Deposit Account

Please charge any shortages and credit any overages to Deposit Account No. 02-2666, including any funds necessitated due to insufficient funds for an accompanying check. Any necessary extension of time for response not already requested is hereby requested. Please charge any corresponding fee to Deposit Account No. 02-2666.

Respectfully submitted,

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MARKED-UP SECTION

The following Abstract illustrates the changes requested in the amendment.

A method of notifying clients of a change in a USB (Universal Serial Bus) including a first client requesting notification of a first change in the USB, detecting the first change in the USB, and notifying the first client requesting notification that the first change in the USB occurred. The first change may be, for example, connection or disconnection of a USB device.

The following claims illustrate the changes requested in the amendment.

1. (Amended) A method of notifying clients of a specific change in a system comprising:
a client requesting notification of the specific change in the system;
detecting the specific change in the system; and
notifying the client requesting notification that the specific change in the system occurred.

2. (Unchanged) The method of claim 1 further comprising:
maintaining a list of requests for notification.

3. (Unchanged) The method of claim 1 further comprising:
the client terminating a request for notification.

4. (Unchanged) The method of claim 2 further comprising:
the client terminating a request for notification;
and removing a request corresponding to the client from the list of requests for notification.

5. (Amended) The method of claim 1 wherein:
the specific change in the system is connection of a device.

6. (Amended) The method of claim 1 wherein:
the specific change in the system is disconnection of a device.

7. (Unchanged) The method of claim 1 wherein:
said requesting includes the client supplying a callback routine; and
said notifying includes executing the callback routine.

8. (Amended) A subsystem for notifying clients of a specific change in a system comprising:
means for a client to request notification of the specific change in the system;
means for detecting the specific change in the system; and
means for notifying the client requesting notification that the specific change in the system occurred.

9. (Unchanged) The subsystem of claim 8 further comprising:
means for maintaining a list of requests for notification.

10. (Unchanged) The subsystem of claim 9 further comprising:
means for the client to terminate a request for notification; and

means for removing a request corresponding to the client from the list of requests for notification.

11. (Unchanged) The subsystem of claim 10 further comprising:

means for communication to the client; and

wherein:

the client supplies the means for communication; and

the means for communication is utilized by the means for notifying.

12. (Amended) A machine-readable medium containing a plurality of executable instructions, which when executed on a processor cause said processor to perform a method of notifying clients of a specific change in a system, the method comprising:

a client requesting notification of the specific change in the system;

detecting the specific change in the system; and

notifying the client requesting notification that the specific change in the system occurred.

13. (Unchanged) The machine-readable medium of claim 12 wherein the method further comprises:

maintaining a list of requests for notification.

14. (Unchanged) The machine-readable medium of claim 13 wherein the method further comprises:

the client terminating a request for notification;

and removing a request corresponding to the client from the list of requests for notification.

15. (Unchanged) The machine-readable medium of claim 14 wherein:
said requesting includes the client supplying a callback routine; and
said notifying includes executing the callback routine.

16. (Amended) A system comprising:
a processor;
a memory;
a bus, the bus coupled to the processor, the bus coupled to the memory; and
the processor processing a request by a client for notification of a specific
change in the system, the processor detecting the specific change in the system, and
the processor notifying the client that the specific change in the system has occurred.

17. (Unchanged) The system of claim 16 wherein:
the processor maintains a list of requests for notification.

18. (Unchanged) The system of claim 17 wherein:
the processor stores the list of requests in memory.

19. (Unchanged) The system of claim 17 wherein:
the processor processes the client's termination of a request for notification by
removing a request corresponding to the client from the list of requests for notification.

20. (Unchanged) The system of claim 19 wherein:
the processor receives a callback routine from the client when the client requests
notification and the processor notifies the client by executing the callback routine.

21. (Twice Amended) A method of notifying clients of a specific change in a

Universal Serial Bus (USB) comprising:

a first client requesting notification of a first specific change in the USB;
detecting the first specific change in the USB; and
notifying the first client requesting notification that the first specific change in the USB occurred.

22. (Amended) The method of claim 21 wherein:

the first specific change is connection of a device to the USB;
and further comprising:
finding a driver suitable for use with the device.

23. (Amended) The method of claim 21 wherein:

the first specific change is disconnection of a device from the USB;
and further comprising:
deactivating a driver corresponding to the device.

24. (Amended) The method of claim 21 further comprising:

a second client requesting notification of a second specific change in the USB;
detecting the second specific change in the USB; and
notifying the second client requesting notification that the second specific change in the USB occurred.

25. (Amended) The method of claim 24 wherein:

a change in the USB constitutes a first specific change and constitutes a second specific change.

26. (Amended) The method of claim 24 wherein:

a change in the USB that constitutes a first specific change does not constitute a second specific change.